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| ***Supplemental table 1. Relationship between hallucinations/misidentification delusions and cognitive impairment.*** |
| **Symptom** | **Mini-Mental State Examination score (MMSE)** |
| **DLB** | **AD** |
| **MMSE>20** | **MMSE 10-20** | **MMSE<10** | ***P value*** | **MMSE>20** | **MMSE 10-20** | **MMSE<10** | ***P value*** |
| **Visual hallucinations** | 14/33\*(42.4%) | 17/36\*\*\*(47.2%) | 9/11\*(81.8 %) | *0.0514* | 3/24\*(12.5 %) | 5/50\*\*\*(10.0%) | 3/11\*(27.3%) | 0.3830 |
| **Auditory hallucinations** | 2/33(6.1%) | 7/36\*\*(19.4%) | 5/11\* (45.4%) | **0.0034** | 0/24(0.0%) | 1/50\*\*(2.0%) | 0/11\*(0.0%) | 0.8050 |
| **Delusional misidentifications** | 8/33(24.2%) | 17/36\*\*\*(47.2%) | 9/11(81.8%) | **0.0007** | 4/24(16.7%) | 5/50\*\*\*(10.0%) | 6/11(54.5%) | **0.0499** |
| \* *p*<0.05, \*\* *p*<0.01, \*\*\* *p*<0.0001, Pearson’s *χ2* with Fisher’s exact test between DLB and AD within the same MMSE interval. Bold-faced font indicates statistically significant results in the Pearson’s *χ2* for trend within the DLB or the AD groups. Italic font indicates trend towards statistical significance. |

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| ***Supplemental table 2. Relationship between hallucinations/misidentification delusions and functional impairment.*** |
| **Symptom** | **Interview for Deterioration in Daily Living Activities in Dementia (IDDD)** |
| **DLB** | **AD** |
| **IDDD<41** | **IDDD 42-55** | **IDDD >56** | ***P value*** | **IDDD<41** | **IDDD****42-55** | **IDDD >56** | ***P value*** |
| **Visual hallucinations** | 7/25(28.0%) | 13/27\*\*(48.1%) | 20/28\*\*\*(71.4%) | **0.0016** | 2/30(6.7%) | 3/28\*\*(10.7%) | 6/27\*\*\*(22.2%) | *0.0831* |
| **Auditory hallucinations** | 0/25(0.0%) | 7/27\*(25.9%) | 7/28\*(25.0%) | **0.0191** | 0/30(0.0%) | 1/28\*(3.6%) | 0/27\*(0.0%) | 0.9654 |
| **Delusional misidentifications** | 1/25(4.0%) | 12/27\*(44.4%) | 21/28\*\*(75.0%) | **<0.0001** | 2/30(6.7%) | 5/28\*(17.8%) | 8/27\*\*(29.6%) | **0.0232** |
| \* *p*<0.05, \*\* *p*<0.01, \*\*\* *p*<0.0001, Pearson’s *χ2* with Fisher’s exact test between DLB and AD within the same IDDD interval. Bold-faced font indicates statistically significant results in the Pearson’s *χ2* for trend. Italic font indicates trend towards statistical significance. |

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| ***Supplemental table 3. Demographic characteristics of DLB and AD groups by MMSE and IDDD interval.*** |
|  | **DLB** | **AD** |
| **MMSE>20** | **MMSE 10-20** | **MMSE<10** | **MMSE>20** | **MMSE 10-20** | **MMSE<10** |
| **N (%)** | 33 (41) | 36 (45) | 11 (13) | 24 (28) | 50 (58) | 11 (12) |
| **Gender, n female (%)** | 12 (15) | 16 (20) | 8 (10) | 12 (14) | 35 (41) | 6 (7) |
| **Age, y**  | 75±5.8 | 77±3.3 | 79±2.2 | 73±6.4 | 72±6.9 | 71±7.4 |
|  | **IDDD<41** | **IDDD 42-55** | **IDDD>56** | **IDDD<41** | **IDDD 42-55** | **IDDD>56** |
| **N (%)** | 25 (31) | 27 (33) | 28 (35) | 30 (35)  | 28 (32)  | 27 (31)  |
| **Gender, n female (%)** | 9 (11) | 16 (20) | 11 (13) | 18 (21) | 23 (27) | 12 (14) |
| **Age, y**  | 75±6.2 | 75±5.8 | 79±3.8 | 72±6.0 | 74±7.3 | 71±6.9 |